

Name _____

BONDING



Directions: Use the chart below and your periodic table to answer the questions that follow.

PART I: COMPARING ELEMENTS

Group One and Group Two both show different compounds made by bonding different elements together. There are two types of bonding in food science, as shown in these two groupings. Let's take a closer look at the elements in each compound to see what makes a compound IONIC or COVALENT.

IONIC BONDS	COVALENT BONDS
NaCl (Sodium Chloride)	H ₂ O (Dihydrogen Monoxide)
MgO (Magnesium Oxide)	CH ₄ (Methane)
Li ₂ O (Lithium Oxide)	CO ₂ (Carbon Dioxide)
KF (Potassium Fluoride)	HF (Hydrofluoric Acid)
FeBr ₃ (Iron III Bromide)	NH ₃ (Ammonia)
CaCl ₂ (Calcium Chloride)	NO ₂ (Nitrogen Dioxide)
NiI ₂ (Nickel Iodide)	C ₆ H ₁₂ O ₆ (Glucose)
BaS (Barium Sulfide)	CF ₄ (Carbon Tetrafluoride)

1. List out the FIRST element in each of the GROUP ONE compounds.
2. What do you notice about the FIRST element that makes up each compound in GROUP ONE?
3. What side of the periodic table do you find these FIRST elements on?
4. List out the SECOND element in each of the GROUP ONE compounds.
5. What do you notice about the SECOND element that makes up each compound in GROUP ONE?
6. What side of the periodic table do you find these SECOND elements on?

BIG IDEA #1: When a _____ and a _____ come together, they make an IONIC BOND.

7. What do you notice about ALL of the elements in GROUP TWO?
8. What side of the periodic table do you find ALL of these elements on?

Answers Chemical Bonding Pogil

Suzanne M. Ruder, The POGIL Project



Answers Chemical Bonding Pogil:

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes *Organic Chemistry* Suzanne M. Ruder, The POGIL Project, 2015-12-29 *ORGANIC CHEMISTRY Foundations of Inorganic Chemistry* Gary Wulfsberg, 2017-11-02 *Foundations of Inorganic Chemistry* by Gary Wulfsberg is our newest entry into the field of Inorganic Chemistry textbooks designed uniquely for a one semester stand alone course or to be used in a full year inorganic sequence *Foundations of Inorganic Chemistry* by Gary Wulfsberg is our newest entry into the field of Inorganic Chemistry textbooks designed uniquely for a one semester stand alone course or to be used in a full year inorganic sequence By covering virtually every topic in the test from the 2016 ACS Exams Institute this book will prepare your students for success The new book combines careful pedagogy clear writing beautifully rendered two color art and solved examples with a broad array of original chapter ending exercises It assumes a background in General Chemistry but reviews key concepts and also assumes enrollment in a *Foundations of Organic Chemistry* course Symmetry and molecular orbital theory are introduced after the student has developed an understanding of fundamental trends in chemical properties and reactions across the periodic table which allows MO theory to be more broadly applied in subsequent chapters Use of this text is expected to increase student enrollment and build students appreciation of the central role of inorganic chemistry in any allied field Key Features Over 900 end of chapter exercises half answered in the back of the book Over 180 worked examples Optional experiments demos Clearly cited connections to other areas in chemistry and chemical sciences Chapter opening biographical vignettes of noted scientists in Inorganic Chemistry Optional General Chemistry review sections Originally rendered two color illustrations throughout

Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis *Analytical Chemistry* offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more *Transforming Urban Education* Kenneth Tobin, Ashraf Shady, 2014-04-03 *Transformations in Urban Education* Urban Teachers and Students Working Collaboratively addresses pressing problems in urban education contextualized in research in New York City and nearby school districts on the Northeast Coast of the United States The schools and institutions involved in empirical studies range from elementary through college and include public and private schools alternative schools for dropouts and museums Difference is regarded as a resource for learning and equity issues are examined in terms of race ethnicity language proficiency designation as special education and gender The contexts for

research on teaching and learning involve science mathematics uses of technology literacy and writing comic books A dual focus addresses research on teaching and learning and learning to teach in urban schools Collaborative activities addressed explicitly are teachers and students enacting roles of researchers in their own classrooms cogenerative dialogues as activities to allow teachers and students to learn about one another's cultures and express their perspectives on their experienced realities and negotiate shared recommendations for changes to enacted curricula Coteaching is also examined as a means of learning to teach teaching and learning and undertaking research The scholarship presented in the constituent chapters is diverse reflecting multi logicity within sociocultural frameworks that include cultural sociology cultural historical activity theory prosody sense of place and hermeneutic phenomenology Methodologies employed in the research include narratology interpretive reflexive and authentic inquiry and multi level inquiries of video resources combined with interpretive analyses of social artifacts selected from learning environments This edited volume provides insights into research of places in which social life is enacted as if there were no research being undertaken The research was intended to improve practice Teachers and learners as research participants were primarily concerned with teaching and learning and as a consequence as we learned from research participants were made aware of what we learned the purpose being to improve learning environments Accordingly research designs are contingent on what happens and emergent in that what we learned changed what happened and expanded possibilities to research and learn about transformation through heightening participants awareness about possibilities for change and developing interventions to improve learning

Choice, 2009 *Chemists' Guide to Effective Teaching* Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry

Chemical Bonds Phillip Manning, 2009 Modern life is made up of a mind boggling array of materials A simple drinking cup for example might be made of Styrofoam paper or glass depending on the drinkers needs at the moment Home storage cabinets can be made of metal wood or plastic Space shuttles are assembled from silicon steel and hundreds of other materials All of these items owe their properties to the chemical bonds between the atoms that make up the substance Chemical Bonds examines the nature of the chemical bonds answering fundamental questions about how they form how they are broken and how they help define life as we know it

Advances in Teaching Physical Chemistry Mark David Ellison, 2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry It includes perspectives from experienced and well known physical chemists a thorough review of the education literature pertaining to physical chemistry a thorough review of advances in undergraduate

laboratory experiments from the past decade in depth descriptions of using computers to aid student learning and innovative ideas for teaching the fundamentals of physical chemistry This book will provide valuable insight and information to all teachers of physical chemistry

Chemical Bonds Jeremy K. Burdett, 1997-05-28 Inorganic Chemistry This series reflects the breadth of modern research in inorganic chemistry and fulfils the need for advanced texts The series covers the whole range of inorganic and physical chemistry solid state chemistry coordination chemistry main group chemistry and bioinorganic chemistry

Chemical Bonds A Dialog Jeremy K Burdett The University of Chicago USA Understanding the nature of the chemical bond is the key to understanding all chemistry be it inorganic physical organic or biochemistry In the form of a question and answer tutorial the fundamental concepts of chemical bonding are explored These range from the nature of the chemical bond via the regular hexagonal structure of benzene and the meaning of the term metallic bond to d orbital involvement in hypervalent compounds and the structure of N₂O

Chemical Bonds A Dialog provides a novel format in terms of a dialog between two scientists insights into many key questions concerning chemical bonds an orbital approach to quantum chemistry

Chemical Bonding and the Geometry of Molecules George E. Ryschkewitsch, 1963

Chemical Bonding M.S. Sethi & M. Satake, 2010 Contents Chemical Bonding I Basic Concepts Chemical Bonding II Additional Aspects Intermolecular Force and Crystal Structures

The Chemical Bond Gernot Frenking, Sason Shaik, 2014-06-13 This is the perfect complement to *Chemical Bonding Across the Periodic Table* by the same editors who are two of the top scientists working on this topic each with extensive experience and important connections within the community The resulting book is a unique overview of the different approaches used for describing a chemical bond including molecular orbital based valence bond based ELF AIM and density functional based methods It takes into account the many developments that have taken place in the field over the past few decades due to the rapid advances in quantum chemical models and faster computers

Chemical Bonding Audrey L. Companion, 1979

The Concept of the Chemical Bond Zvonimir B. Maksic, 1990-06-13

The state of the art in contemporary theoretical chemistry is presented in this 4 volume set with numerous contributions from the most highly regarded experts in their field It provides a concise introduction and critical evaluation of theoretical approaches in relation to experimental evidence

Lectures On Chemical Bonding And Quantum Chemistry Sambhu N Datta, 2019-02-25 The concept of a chemical bond evolved from a variety of experimental observations It became useful to understand at times even predict the molecular structure reactivity and mechanism of chemical reactions Every aspect of the concept of bonding received a quantitative interpretation from the advent of quantum mechanics and its application to chemistry In *Lectures on Chemical Bonding and Quantum Chemistry* the reader will find a comprehensive discourse on the basic interpretation of the chemical bond as well as current understanding in terms of a dancing molecule that not only travels rotates and pulsates around an equilibrium molecular structure but also interacts and collides with other molecules thereby transferring linear and angular momentum characteristics and adjusting total energies One will also find a thorough

survey of quantum mechanical methodologies for calculation of molecular characteristics in specific states and their changes under spectroscopic transitions tunneling electron and proton transfer phenomena and so on Guides to more advanced levels of theory are also provided *The Concept of the Chemical Bond* Dieter Cremer,Z.B. Maksic,1990-06-13 The state of the art in contemporary theoretical chemistry is presented in this 4 volume set with numerous contributions from the most highly regarded experts in their field It provides a concise introduction and critical evaluation of theoretical approaches in relation to experimental evidence *Chemistry of Chemical Bonding* R. K. Sharma,2007 *Chemical Bonding Clarified Through Quantum Mechanics* George C. Pimentel,Richard D. Spratley,1969 **Chemical Bonds** Harry B. Gray,1994-12-05 This profusely illustrated book by a world renowned chemist and award winning chemistry teacher provides science students with an introduction to atomic and molecular structure and bonding This is a reprint of a book first published by Benjamin Cummings 1973

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